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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/632,923	08/04/2003	Takashi Nozu	040447-0251	4950

22428 7590 05/21/2007  
FOLEY AND LARDNER LLP  
SUITE 500  
3000 K STREET NW  
WASHINGTON, DC 20007

EXAMINER
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CHEN, WENPENG

ART UNIT	PAPER NUMBER
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2624

MAIL DATE	DELIVERY MODE
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05/21/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/632,923	<b>Applicant(s)</b> NOZU, TAKASHI	
	<b>Examiner</b> Wenpeng Chen	<b>Art Unit</b> 2624	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 07 March 2007.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 07 March 2007 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

**Examiner's responses to Applicant's remark**

1. Applicants' amendments filed on 3/7/2007 overcome the following set forth in paper #20061102 mailed on 11/08/2006:

- objection to drawings;
- objection to specification;
- objection to Claim 4;
- rejection to Claims 11-15 under 35 U.S.C. 101;
- rejection to Claims 11-15 under 35 U.S.C. 112, first paragraph.

2. Applicants' arguments filed on 3/7/2007 have been fully considered.

-- Applicants' arguments, with respect to rejection to Claims 1-3, 6-8, and 11-13 under 35 U.S.C. 102(b) as being anticipated by Matsubara, are moot in view of new ground rejection due to Applicant's amendments.

-- The Examiner has thoroughly reviewed Applicants' arguments with regard to the amended claims in view of the teachings of Matsubara and JPEG2000 CIFF and firmly believes that the cited reference to reasonably and properly meet even the amended claims as discussed below.

***Claim Rejections - 35 USC § 103***

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3. Claims 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsubara (US patent application 20020057843) as applied to Claims 1, 3, 6, 8, 11, and 13, and further in view of JPEG2000 Image coding system: Compound Image File Format cited in IDS (Hereafter referred as JPEG2000 CIFF).

Matsubara teaches an image expanding apparatus, comprising:

-- for Claim 1, coding parameter detecting means for detecting coding parameters from an image code; (paragraphs 0066, 0101; The level numbers are the coding parameters. When the "i" level data to be extracted, all the level numbers shall be detected to see whether it is an "i" level.)

-- for Claim 1, expanding parameter designating means for designating expanding parameters; (paragraphs 0066, 0101; The determined image size is used to designate levels "i" and "i+1". )

-- for Claim 1, extracting parameter calculating means for calculating an extracting parameter based on the coding parameters and the expanding parameters; (paragraphs 0066, 0101; The level numbers related to the determined image size are calculated.)

-- for Claim 1, code extracting means for extracting a code necessary for obtaining the expanded image designated by the expanding parameters from the image code with reference to the extracting parameters; (paragraphs 0068, 0101, 0102; Wavelet coefficients associated with the extracted level numbers are extracted and decoded (expanded).)

-- for Claim 2, image expanding means for obtaining an expanded image designated by the expanding parameters based on the extracted code; (paragraphs 0068, 0101, 0102; Wavelet coefficients associated with the extracted level numbers are extracted and decoded (expanded).)

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-- for Claim 3, wherein the code extracting means is configured to extract as the extracted code a code having a necessary resolution level of a necessary tile of a necessary layout object. (paragraph 0074; In JPEG2000, an image that can be considered as layout object, is divided into tiles. Each tile is then wavelet decomposed and coded. Therefore, Matsubara also teaches this feature.)

Because Matsubara teaches a system (Figs. 7-8) and computer program product embedded in a computer-readable medium (paragraph 0094) for implementing the above methods, Matsubara also teaches Claims 6-8 and 11-13.

However, Matsubara does not teach features related to (1) a plurality of layout objects recited in Claims 1, 6, and 11, (2) the details recited in Claim 4 and (3) "compound document file format" in Claims 4-5, 9-10, and 14-15.

JPEG2000 CIFF teaches images codes including:

-- for Claims 1, 6, and 11, image code including a plurality of layout objects, each layout object of said plurality of layout objects including a plurality of tiles, wherein the image code also comprises coding parameters including a number of layout objects of the plurality of layout objects that are in a particular page; (Fig. A-1 including the JPEG 2000 signature box teaches all the above-listed parameters. *The Examiner does not rely on JPEG2000 CIFF to teach the coding parameter detecting means. The Examiner bases on JPEG2000 CIFF to teach details of image code.*)

-- for Claims 1, 6, and 11, wherein the image code also comprises expanding parameters including a number of particular layout objects to be displayed in an expanded image; (Fig. A-1 including the JPEG 2000 signature box teaches all the above-listed parameters)

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-- for Claims 1, 6, and 11, wherein the image code also comprises parameters including (i) one or more certain layout objects of the plurality of layout objects that are necessary for providing the expanded image and (ii) for each layout object of the one or more certain layout objects, one or more particular tiles of the plurality of tiles of the layout object that are to be used to provide the expanded image. (Fig. A-1 including the JPEG 2000 signature box teaches all the above-listed parameters)

It is desirable to have flexibility to decode compound images based on various conditions. It would have been obvious to one of ordinary skill in the art, at the time of the invention, to include JPEG2000 Compound Image File Format in Matsubara's coding/decoding system so Matsubara extracts coded data based on JPEG2000 Compound Image File Format because the combination improves decoding flexibility of compound images. The combination thus teaches:

-- coding parameter detecting means for detecting coding parameters from an image code, said image code including a plurality of layout objects, each layout object of said plurality of layout objects including a plurality of tiles, said coding parameters including a number of layout objects of the plurality of layout objects that are in a particular page;

-- expanding parameter designating means for designating expanding parameters~ said expanding parameters including a number of particular layout objects to be displayed in an expanded image;

-- extracting parameter calculating means for calculating-an extracting parameters based on the coding parameters and the expanding parameters, said extracting parameters including (i) one or more certain layout objects of the plurality of layout objects that are necessary\_ for providing the expanded image and (ii) for each layout object of the one or more certain layout

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objects, one or more particular tiles of the plurality of tiles of the layout object that are to be used to provide the expanded image.

JPEG2000 CIFF also teaches:

-- for Claim 4, wherein the coding parameters further include vertical and horizontal sizes in pixels of a page image and a size of a tile, wherein the expanding parameters further include an expanded image size proportional to a resolution of the expanded image and an image display area for each layout object; (Fig. A-1 including the JPEG 2000 signature box teaches all the above-listed parameters)

-- for Claim 5, JPEG2000 Image coding system with Compound Image File Format.

(Title)

### Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wenpeng Chen whose telephone number is 571-272-7431. The examiner can normally be reached on 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta can be reached on 571-272-7453. The fax phone numbers for the organization where this application or proceeding is assigned are 571-273-8300 for regular communications and 571-273-8300 for After Final communications. TC 2600's customer service number is 571-272-2600.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2600.

Wenpeng Chen  
Primary Examiner  
Art Unit 2624

May 14, 2007

A handwritten signature in black ink, appearing to read 'Wenpeng Chen', written in a cursive style.